

EXECUTIVE RECOMMENDATION

Blue Plains WWTP: Biological Nutrient Removal - No. 973817

Category: WSSC
 Agency: W.S.S.C.
 Planning Area: Countywide
 Relocation Impact: None

Date Last Modified: January 5, 2009
 Required Adequate Public Facility: No

EXPENDITURE SCHEDULE (\$000)

Cost Element	Thru		Est. 6 Year								Beyond	
	Total	FY08	FY09	Total	FY10	FY11	FY12	FY13	FY14	FY15	6 Years	
Planning, Design and Supervision	12,585	5,474	1,603	5,508	2,387	1,922	1,038	161	0	0	0	0
Construction	75,647	20,800	14,855	39,992	18,746	14,349	6,255	629	13	0	0	0
Other	883	263	165	455	211	163	73	8	0	0	0	0
Total	89,115	26,537	16,623	45,955	21,344	16,434	7,366	798	13	0	0	0

FUNDING SCHEDULE (\$000)

Municipal (WSSC only)	2,445	728	456	1,261	586	451	202	22	0	0	0	0
State Aid	44,559	13,269	8,312	22,978	10,672	8,217	3,683	399	7	0	0	0
WSSC Bonds	42,111	12,540	7,855	21,716	10,086	7,766	3,481	377	6	0	0	0

COMPARISON (\$000)

	Total	Thru		Est. 6 Year								Beyond	Approp.
		FY08	FY09	Total	FY10	FY11	FY12	FY13	FY14	FY15	6 Years	Request	
Current Approved	57,785	26,398	14,706	16,160	10,880	4,785	5	33	457	0	521	0	
Agency Request	45,793	26,291	11,196	8,306	5,792	2,511	3	0	0	0	0	5,792	
Recommended	89,115	26,537	16,623	45,955	21,344	16,434	7,366	798	13	0	0	21,344	
CHANGE				TOTAL		%	6-YEAR		%		APPROP.		
Agency Request vs Approved				(11,992)		(20.8%)	(7,854)		(48.6%)		5,792	0.0%	
Recommended vs Approved				31,330		54.2%	29,795		184.4%		21,344	0.0%	
Recommended vs Request				43,322		94.6%	37,649		453.3%		15,552	268.5%	

Recommendation

APPROVE WITH MODIFICATIONS.

Comments

This project includes funding for WSSC's share of the Blue Plains Advanced Wastewater Treatment Plant "Biological Nutrient Removal" capital project.

WSSC's request was based on cost estimates prepared in the early fall using available information from the District of Columbia Water and Sewer Authority (WASA). In December, WASA provided updated cost figures based on its Proposed FY2008 - 2017 Capital Improvements Plan. The Executive recommends changes in the project estimates to align with the amounts proposed by WASA in its FY2008 - 2017 CIP.

The FY10 appropriation request for this project is \$21,344,000.

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code
973817	S-22.08	Change

2. Date: October 1, 2008

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

Revised:

5. Agency: **WSSC**

3. Project Name: Blue Plains WWTP: Biological Nutrient Removal

4. Program: **Sanitation** 6. Planning Area: Bi-County**B. Expenditure Schedule (000's)**

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	6,690	5,474	431	785	430	352	3				
Land											
Site Improvements & Utilities											
Construction	38,893	20,800	10,654	7,439	5,305	2,134					
Other	210	17	111	82	57	25					
Total	45,793	26,291	11,196	8,306	5,792	2,511	3				

C. Funding Schedule (000's)

WSSC Bonds	21,638	12,423	5,291	3,924	2,737	1,186	1				
State Aid	22,898	13,146	5,598	4,154	2,896	1,256	2				
City of Rockville	1,257	722	307	228	159	69					

D. Description & Justification**DESCRIPTION**

This project provides funding for WSSC's share of the Blue Plains Biological Nutrient Removal Pilot Project and BNR Permanent Facility design and construction. The project includes modifications to the nitrification basins, methanol storage and feed facilities, a control building, addition of fine bubble diffusers, and improvements to the nitrification facilities (Phase II). This project is stipulated in the 1995 Consent Decree signed by the District of Columbia and the United States Department of Justice.

Service Area Bi-County Area

Capacity 370 MGD

JUSTIFICATION**Plans & Studies**

Porter, MacNamee & Seely Study (1992); Civil Action No. 90-163; Civil Action No. 84-2842 JGP; the WASA Master Plan (1998); and the DC-WASA Approved FY 2007 - FY 2016 Capital Improvement Program information (January, 2008).

Specific Data

The initial \$12.1 million Pilot Project was planned as a phased, four year, half-plant trial. For the Pilot, portions of the nitrification basins were converted to anoxic zones with methanol added as the carbon source. After the Pilot Project proved successful in the first two years, the third and fourth years were not required and the design and construction of permanent BNR facilities commenced. The Consent Decree acknowledged that applying this technology was experimental.

Cost Change

Costs decreased due to construction progress and lower construction costs than expected in the Engineer's estimate.

STATUS Under Construction**OTHER**

The project scope has remained the same. The expenditure schedule shown above reflects the cost of permanent BNR facilities as required under the Consent Decree. Phase I and portions of Phase II are complete. The Maryland Department of the Environment (MDE) has, by agreement, committed to providing 50% grant funding in the amount shown. However, MDE has not yet agreed that all of the Phase II costs are grant eligible.

COORDINATION

Maryland Department of the Environment and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% Environmental Regulation.**E. Annual Operating Budget Impact (000's)** FY of Impact

Program Costs	Staff	
	Other	
Facility Costs	Maintenance	
	Debt Service	2402	13
Total Costs.....		2402	13
Impact on Water or Sewer Rate.....		5¢	13

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 96
Date First Approved	FY 96
Initial Cost Estimate	12,189
Cost Estimate Last FY	57,785
Present Cost Estimate	45,793
Approved Request, Last FY	14,706
Total Expenditures & Encumbrances	26,291
Approval Request FY 10	5,792
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status:	Not applicable
% Project Completion:	C-80%
Est. Completion Date:	FY 2012

H. Map Map Reference Code:**MAP NOT AVAILABLE**